

超快恢复整流二极管 Super Fast Recovery Rectifier Diode

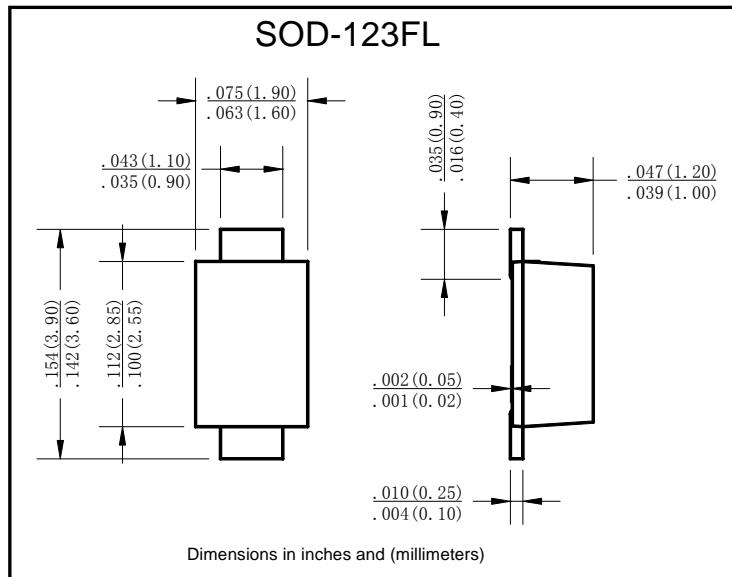
■ 特征 Features

- I_o 1.0A
- V_{RRM} 50V~800V
- 玻璃钝化芯片
Glass passivated chip
- 耐正向浪涌电流能力高
High surge forward current capability

■ 用途 Applications

- 作一般电源单相整流
For general power supply single-phase rectifier

■ 外形尺寸和印记 Outline Dimensions and Mark



■ 极限值 (绝对最大额定值) Limiting Values (Absolute Maximum Rating)

参数名称 Item	符号 Symbol	单位 Unit	条件 Conditions	E1					
				A	B	D	F	G	J
反向重复峰值电压 Repetitive Peak Reverse Voltage	V_{RRM}	V		50	100	200	300	400	600
平均整流输出电流 Average Rectified Output Current	I_o	A	60Hz单向半波, 电阻负载, $T_a=75^\circ C$ 60Hz One-way half-wave, R-load, $T_a=75^\circ C$						1.0
正向(不重复)浪涌电流 Surge(Non-repetitive) Forward Current	I_{FSM}	A	60Hz正弦波, 一个周期, $T_j=25^\circ C$ 60Hz sine wave, 1 cycle, $T_j=25^\circ C$						30
存储温度 Storage Temperature	T_{stg}	$^\circ C$							-55 ~+150
结温 Junction Temperature	T_j	$^\circ C$							-55 ~+150

■ 电特性 ($T_a=25^\circ C$ 除非另有规定)Electrical Characteristics ($T_a=25^\circ C$ Unless otherwise specified)

参数名称 Item	符号 Symbol	单位 Unit	测试条件 Test Condition	E1					
				A	B	D	F	G	J
正向峰值电压 Peak Forward Voltage	V_{FM}	V	$I_{FM}=1.0A$	1.0			1.3		1.7
最大反向恢复时间 Maximum reverse recovery time	t_{rr}	ns	$I_F=0.5A, I_R=1.0A, I_{RR}=0.25A$						35
反向峰值电流 Peak Reverse Current	I_{RRM}	μA	$V_{RM}=V_{RRM}, T_a=25^\circ C$						5
热阻 Thermal Resistance	$R_{\theta J-L}$	$^\circ C/W$	结和引线之间 Between junction and lead						20

■ 特性曲线 (典型) Characteristics(Typical)

图1: Io-Ta曲线
FIG1:Io-Ta Curve

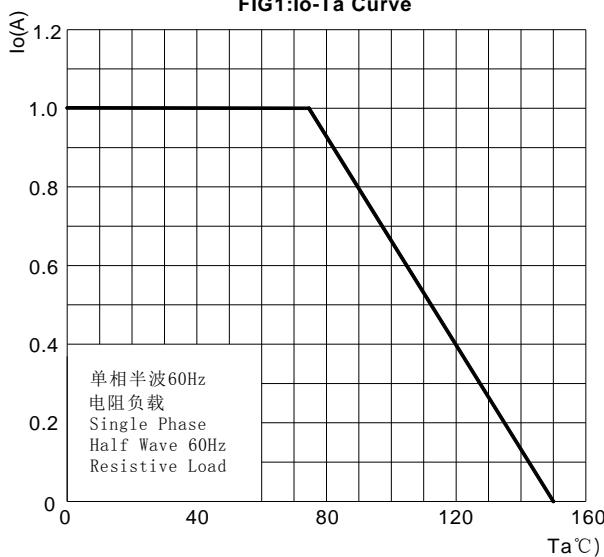


图2: 耐正向浪涌电流曲线
FIG2: Surge Forward Current Capability

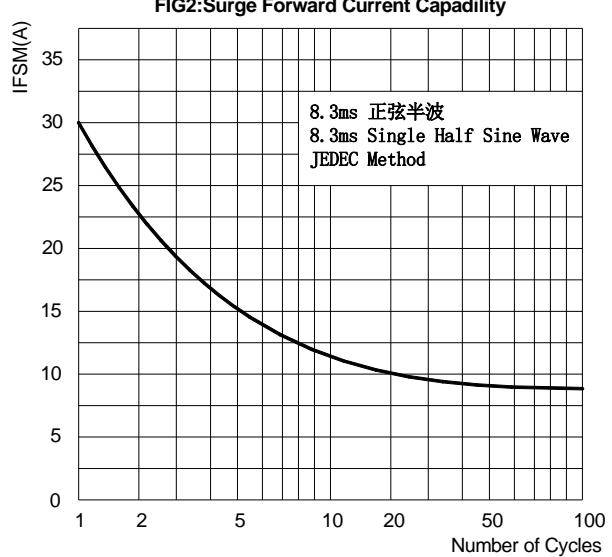


图3: 正向电压曲线
FIG3: Forward Voltage

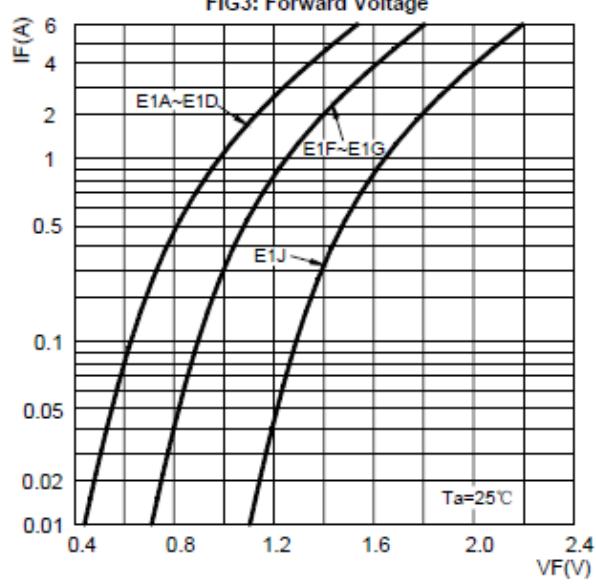


图4: 反向电流曲线
FIG4:Typical Reverse Characteristics

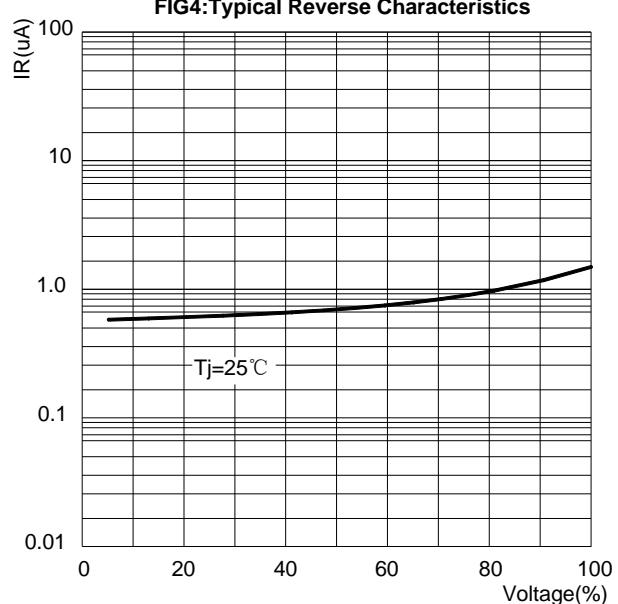


图5: 反向恢复时间试验电路及测试波形示意图

FIG.5: Diagram of circuit and Testing wave form of reverse recovery time

